

In the claims:

Please substitute the following full listing of claim for the claims as originally filed or most recently amended.

1. (Previously Presented) An optical printer head comprising:

a picture element array comprising picture elements containing light emitting devices arranged in directions of a picture element line and a picture element string in two dimensions;

a horizontal scanning circuit as one peripheral circuit to feed data signals to each picture element string in said picture element array; and

a vertical scanning circuit as another peripheral circuit to sequentially select and activate each picture element line in said picture element array,

wherein said horizontal scanning circuit and said vertical scanning circuit comprise poly-crystal thin-film transistors, and

wherein said picture element array, said horizontal scanning circuit and said vertical scanning circuit are formed on a same insulating substrate.

2. (Original) The optical printer head according to claim 1, wherein said light-emitting device is composed of organic electroluminescence devices.

3. (Previously Canceled)

4. (Original) The optical printer head according to claim 1, further comprising a means for setting amounts of light to be emitted from said light-emitting device in picture elements constituting said picture element lines by each picture element line constituting said picture element array.

5. (Currently Amended) The optical printer head according to claim 1, wherein said vertical scanning circuit is so operated that, in a state in which said picture element array is disposed facing a surface of a photosensitive body in a manner that a direction of said picture element line is parallel to a rotation axis of said photosensitive body, ~~activates~~ said picture element line containing each picture element is activated while each picture element contained in each picture element string in said picture element array is passing sequentially on a same spot on a surface of said photosensitive body, with rotation of said photosensitive body.

6. (Currently Amended) The optical printer head according to claim 4, wherein said vertical scanning circuit is so operated that, in a state in which said picture element array is disposed facing a surface of a photosensitive body in a manner that a direction of said picture element line is parallel to a rotation axis of said photosensitive body, ~~activates~~ said picture element line containing each picture element is activated while each picture element contained in each picture element string in said picture element array is passing sequentially on a same spot on a surface of said photosensitive body, with rotation of said photosensitive body.

7. (Original) The optical printer head according to claim 5, wherein the number of picture elements in said each picture element string activated by said vertical scanning circuit is able to be changed.

8. (Original) The optical printer head according to claim 6, wherein the number of picture elements in said each picture element string activated by said vertical scanning circuit is able to be changed.

9. (Original) The optical printer head according to claim 5, wherein said picture elements constituting said picture element array are divided into a plurality of groups of picture elements in a direction of a same line and of a same string and wherein, while the number of picture elements constituting said group of picture elements to be activated by said vertical scanning circuit is being changed, activation of said picture elements is performed for every group of said picture element of said same line.

10. (Original) The optical printer head according to claim 6, wherein said picture elements constituting said picture element array are divided into a plurality of groups of picture elements in a direction of a same line and of a same string and wherein, while the number of picture elements constituting said group of picture elements to be activated by said vertical scanning circuit is being changed, activation of said picture elements is performed for every group of said picture element of said same line.

11. (Original) The optical printer head according to claim 7, wherein said picture elements constituting said picture element array are divided into a plurality of groups of picture elements in a direction of a same line and of a same string and wherein, while the number of picture elements constituting said group of picture elements to be activated by said vertical scanning circuit is being changed, activation of said picture elements is performed for every group of said picture element of said same line.

12. (Original) The optical printer head according to claim 8, wherein said picture elements constituting said picture element array are divided into a plurality of groups of picture elements in a direction of a same line and of a same string and wherein, while the number of picture elements constituting said group of picture elements to be activated by said vertical scanning circuit is being changed, activation of said picture elements is performed for every group of said picture element of said same line.

13. (Previously Presented) The optical printer head according to claim 5, wherein the positional deviation of insertion of said print head in a printer in a direction perpendicular to a direction of travelling of an object to which a toner image is transferred from said photosensitive body is detected and further comprising a shift register for shifting data signals in said horizontal scanning circuit to correct the detected positional deviation.

14. (Currently Amended) The optical printer head according to claim 5 6, wherein the positional deviation of insertion of said print head in a printer in a direction perpendicular to a direction of travelling of an object to which a toner image is transferred from said photosensitive body is detected and further comprising a shift register for shifting data signals in said horizontal scanning circuit to correct the detected positional deviation.

15. (Previously Presented) An optical printer head comprising:

a picture element array comprising picture elements containing light emitting devices arranged in directions of a picture element line and a picture element string in two dimensions;

a horizontal scanning circuit to feed data signals to each picture element string in said picture element array;

a vertical scanning circuit to sequentially select and activate each picture element line in said picture element array,

wherein said horizontal scanning circuit and said vertical scanning circuit comprise poly-crystal thin-film transistors, and said picture element array, said horizontal scanning circuit and said vertical scanning circuit are formed on a same insulating substrate, and

means for selectively controlling luminance of said picture elements.

16. (Previously Canceled)

17. (Previously Presented) An optical printer head as recited in claim 15, wherein a plurality of light emitting devices are provided in each picture element and said means for selectively controlling luminance includes means for energizing a selected plurality of said light-emitting devices.

18. (Previously Presented) An optical printer head as recited in claim 15, wherein said means for selectively controlling luminance includes means for selectively controlling energization power to said light-emitting devices.